

ABSTRACT

A distributed system with a time synchronization
bridge for maintaining a relatively accurate common
sense of time across sub-nets despite the use of a
5 communication device such as a router which causes
jitter in packet transfers across sub-nets. A
distributed system according to the present teachings
includes a set of nodes that communicate via a set of
sub-nets. The nodes each have a local clock and
10 mechanisms for maintaining time synchronization among
the local clocks by transferring timing data packets
via the sub-nets. The timing data packets do not
pass through a router. Instead, a time
synchronization bridge obtains the timing data
15 packets and in response coordinates time
synchronization across the sub-nets.

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